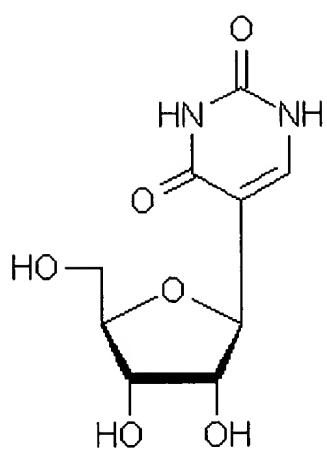
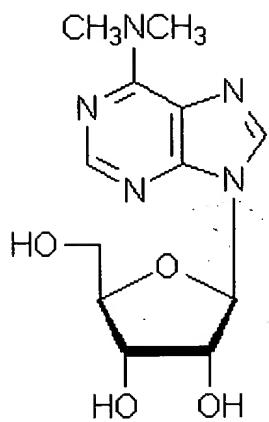
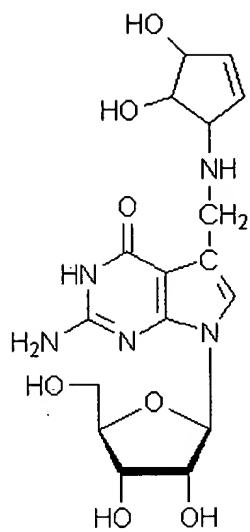
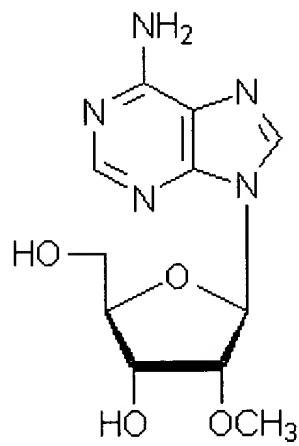


FIGURE 1Pseudouridine(Ψ)

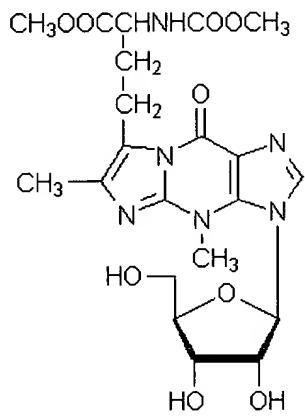
N6,N6-dimethyladenosine



Queuosine(Q)



2'-O-methyladenosine



Wybutosine(yW)

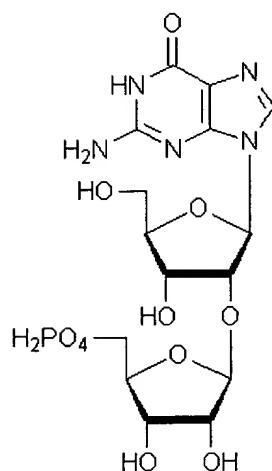
2'-O-ribosylguanosine
(phosphate)

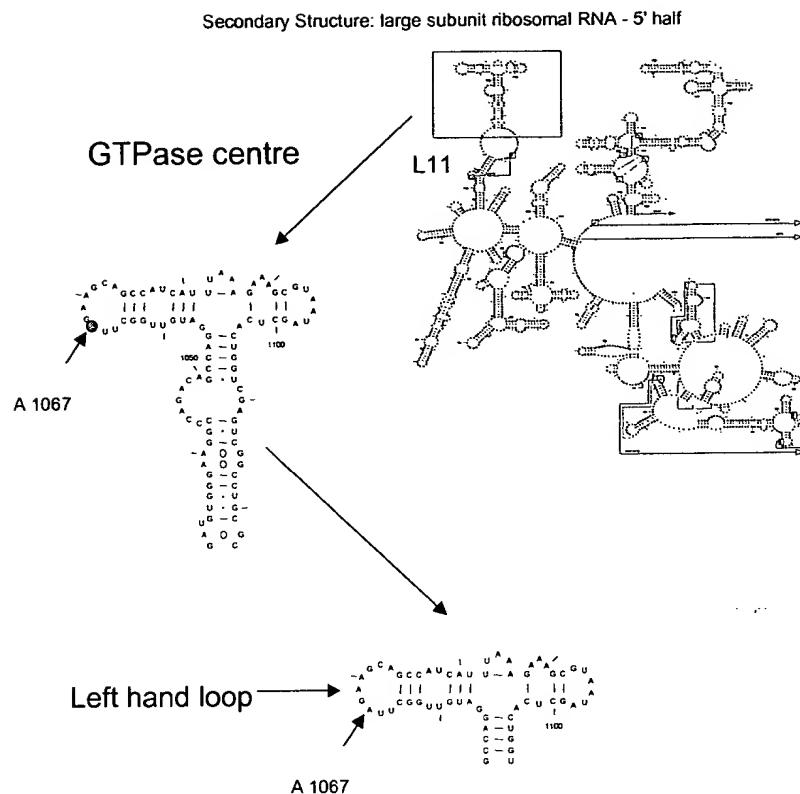
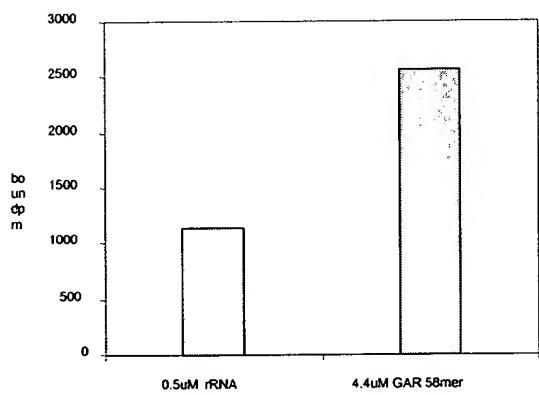
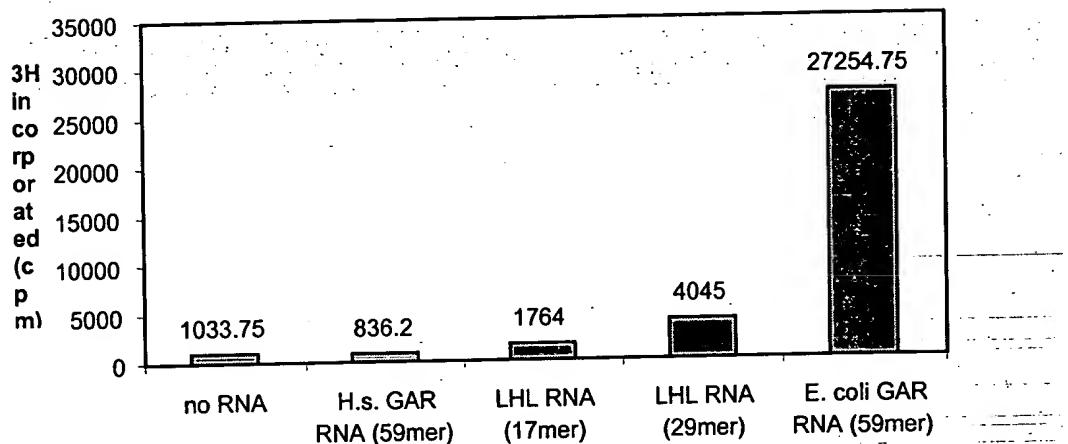
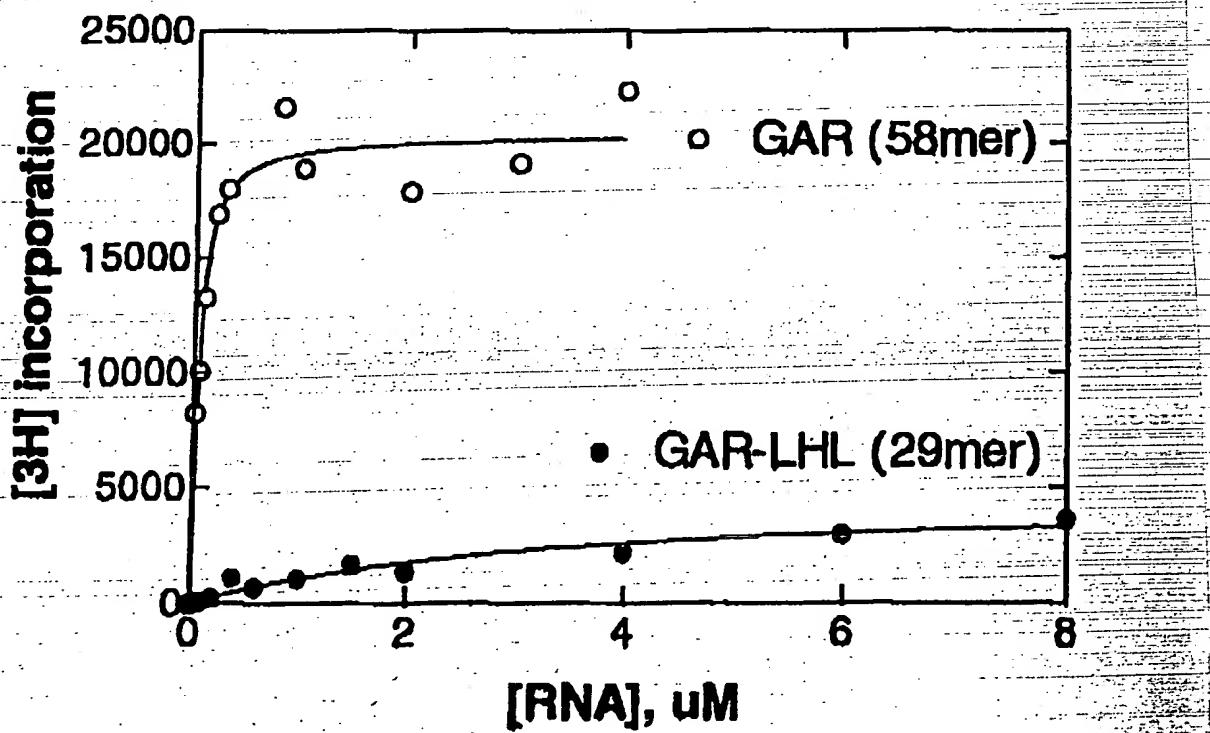
FIGURE 2**FIGURE 3***Methylation of 23S rRNA*

FIGURE 4A*Accessibility of the components of the GAR***FIGURE 4B****TSR methylates isolated GAR-LHL**

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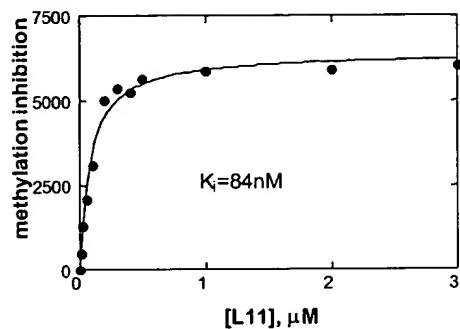
FIGURE 5*Binding of L11 by inhibition of methylation*

Figure 5

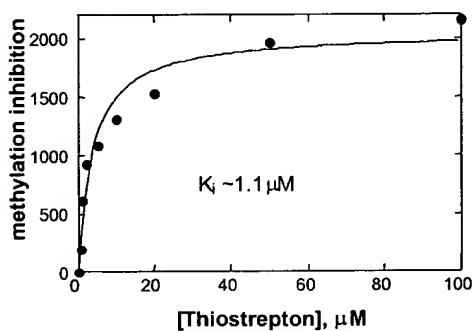
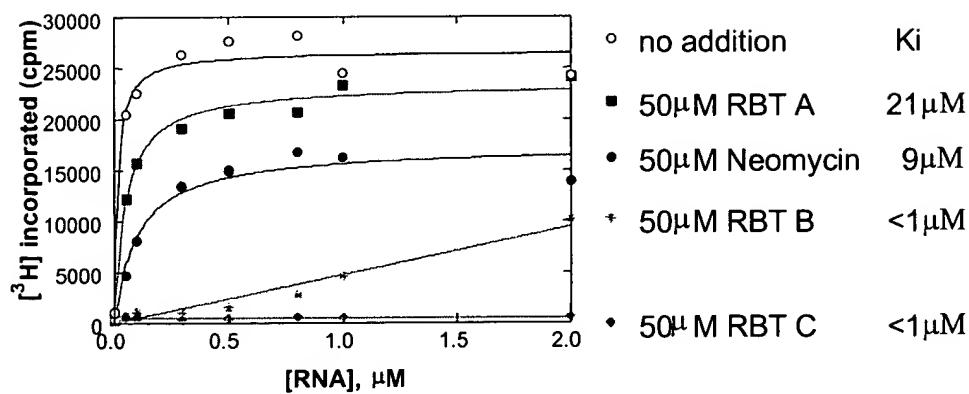
FIGURE 6*Binding of thiostrepton by inhibition of methylation***FIGURE 7***Inhibition of TSR methylation by RBT compounds*

FIGURE 8

Erythromycin resistance methyltransferase (erm)

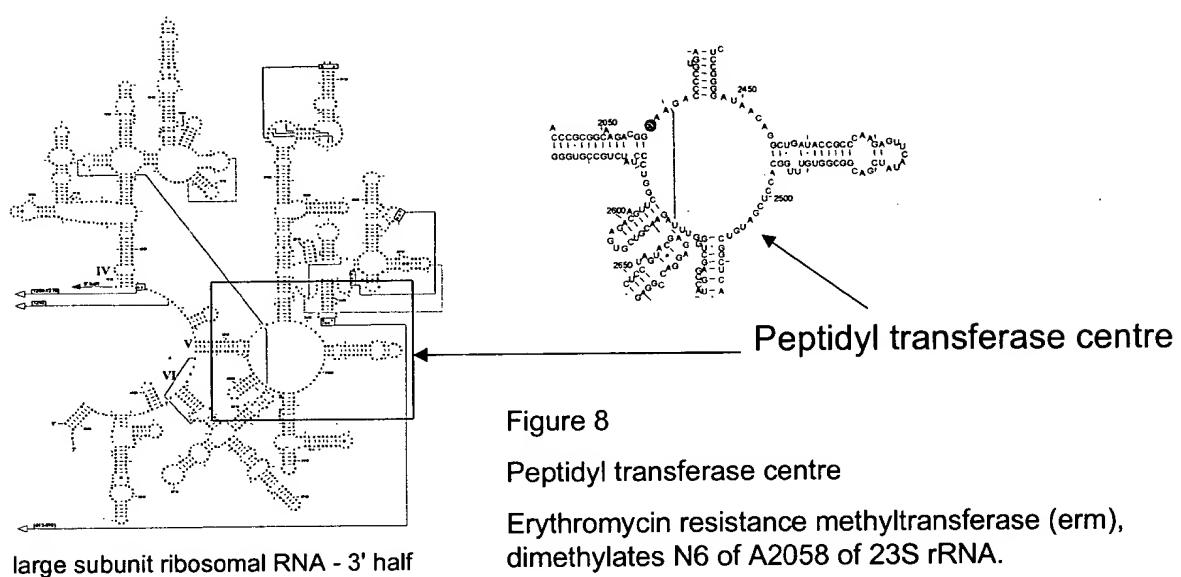


FIGURE 9

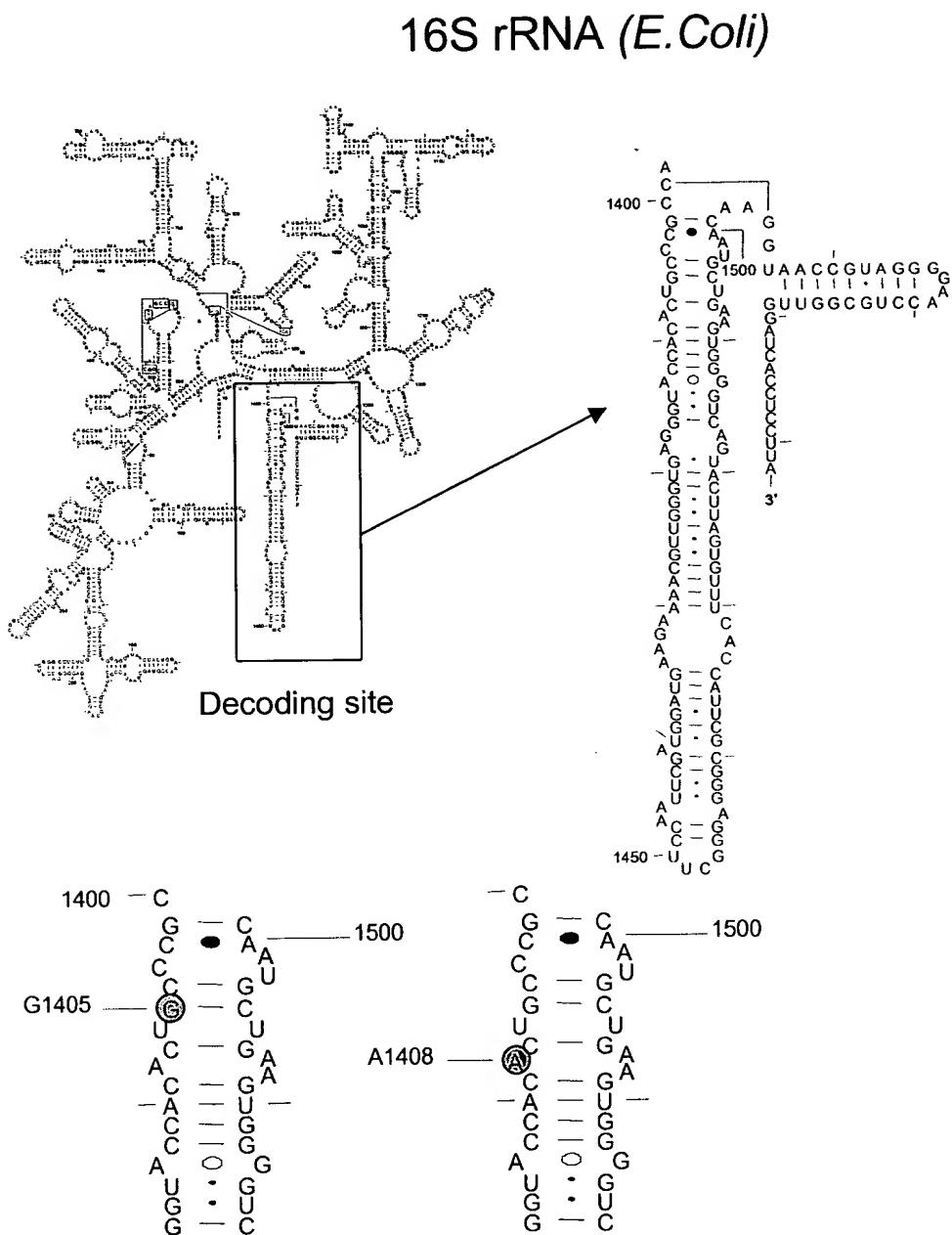


Figure 9

Methylation modifications in the decoding site of 16S rRNA that confer resistance to aminoglycoside antibiotics:

Methyltransferase converts G1405 to 7-methylguanosine
Methyltransferase converts A1408 to 1-methyladenosine

FIGURE 10

Secondary Structure: large subunit ribosomal RNA - 5' half

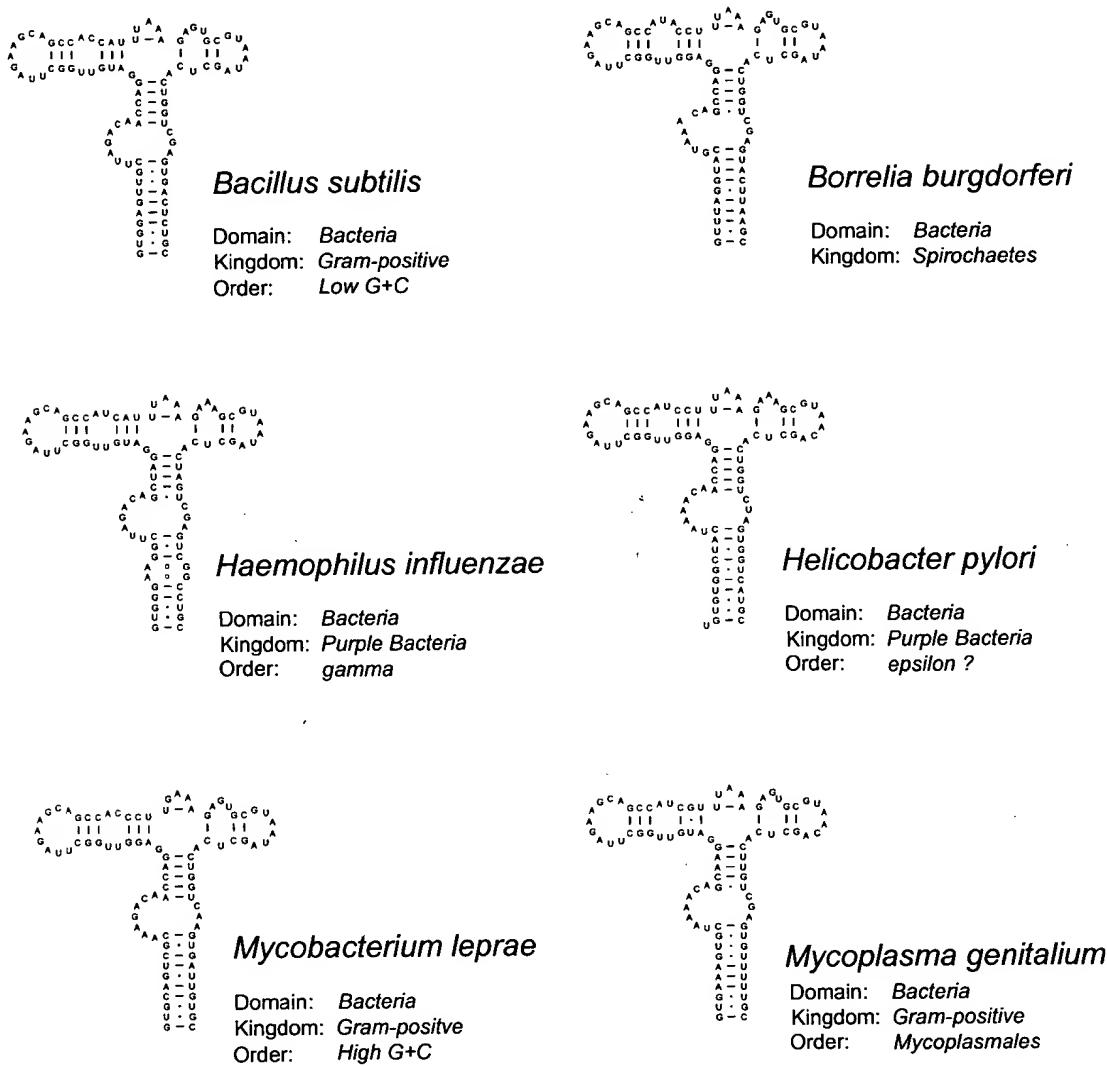


Fig10

Sites accessible to the thiostrepton resistance methyltransferase
In a range of bacteria

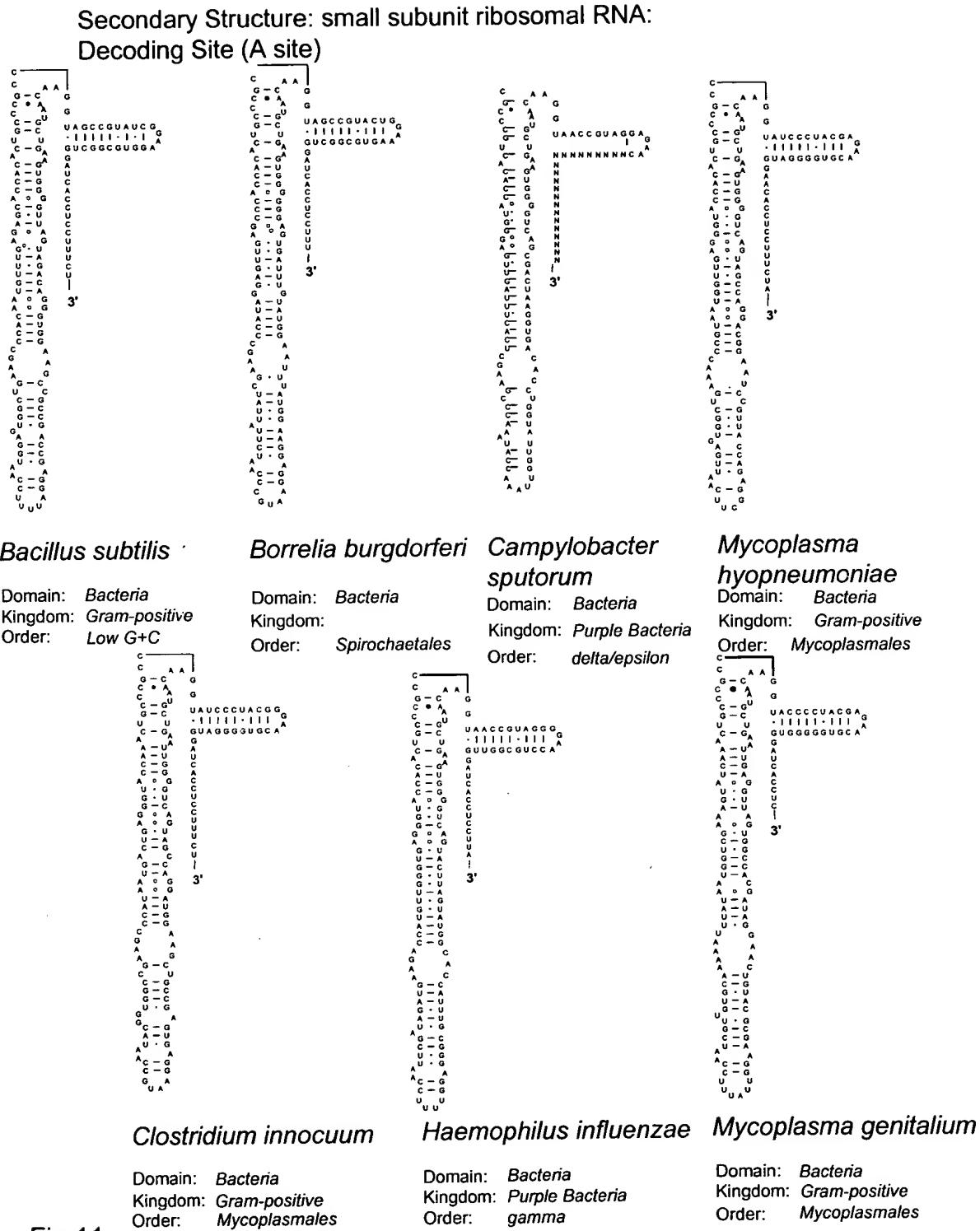
FIGURE 11

Fig 11

The decoding site of 16SrRNA for range of bacteria

FIGURE 12

Secondary Structure: small subunit ribosomal RNA

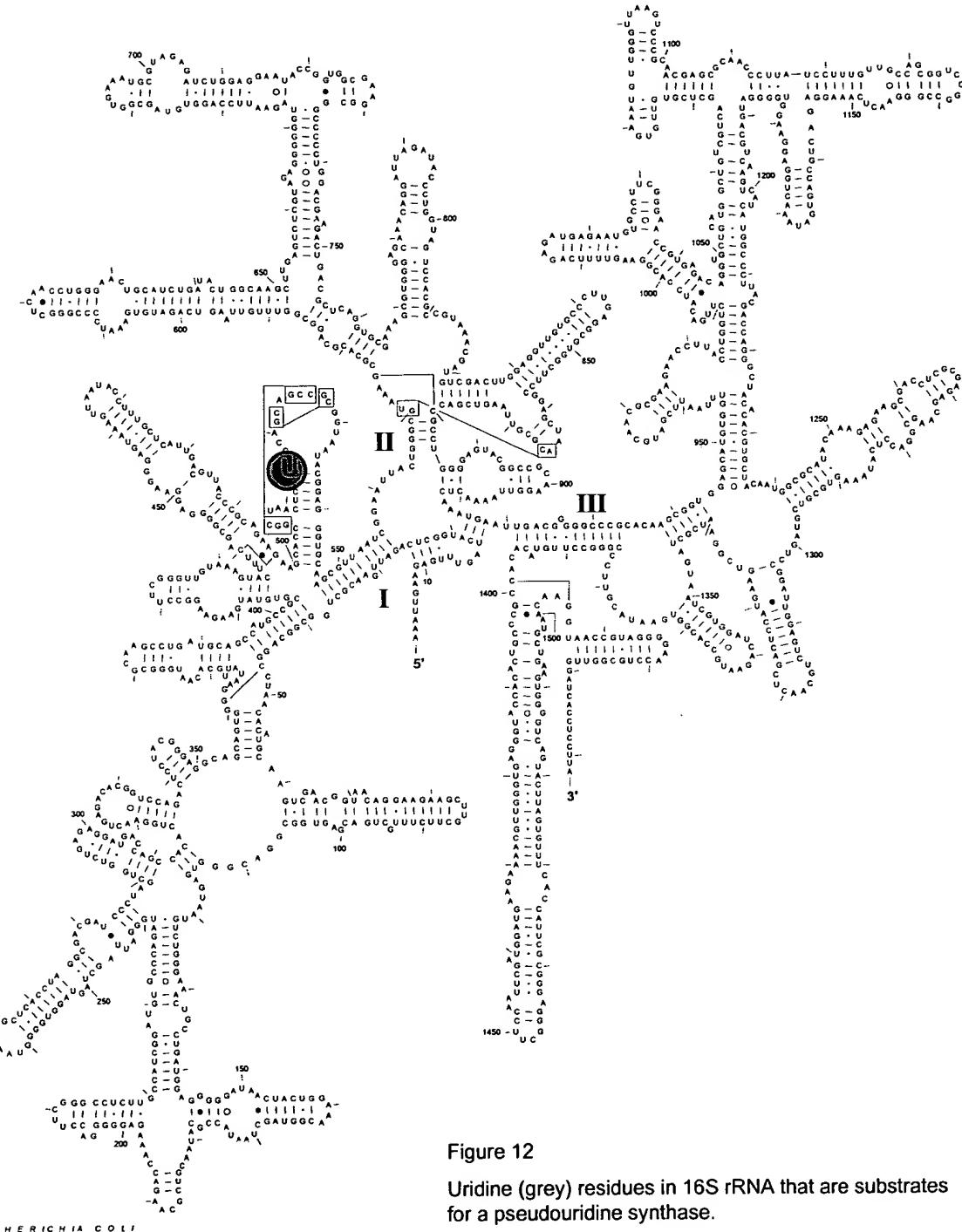


Figure 12

Uridine (grey) residues in 16S rRNA that are substrates for a pseudouridine synthase.

E S C H E R I C H I A C O L I

DOMAIN: Bacteria
KINGDOM: Purple Bacteria
ORDER: gamma

July 3, 1995 v4.0
(J01695)

FIGURE 13

Secondary Structure: large subunit ribosomal RNA - 5' half

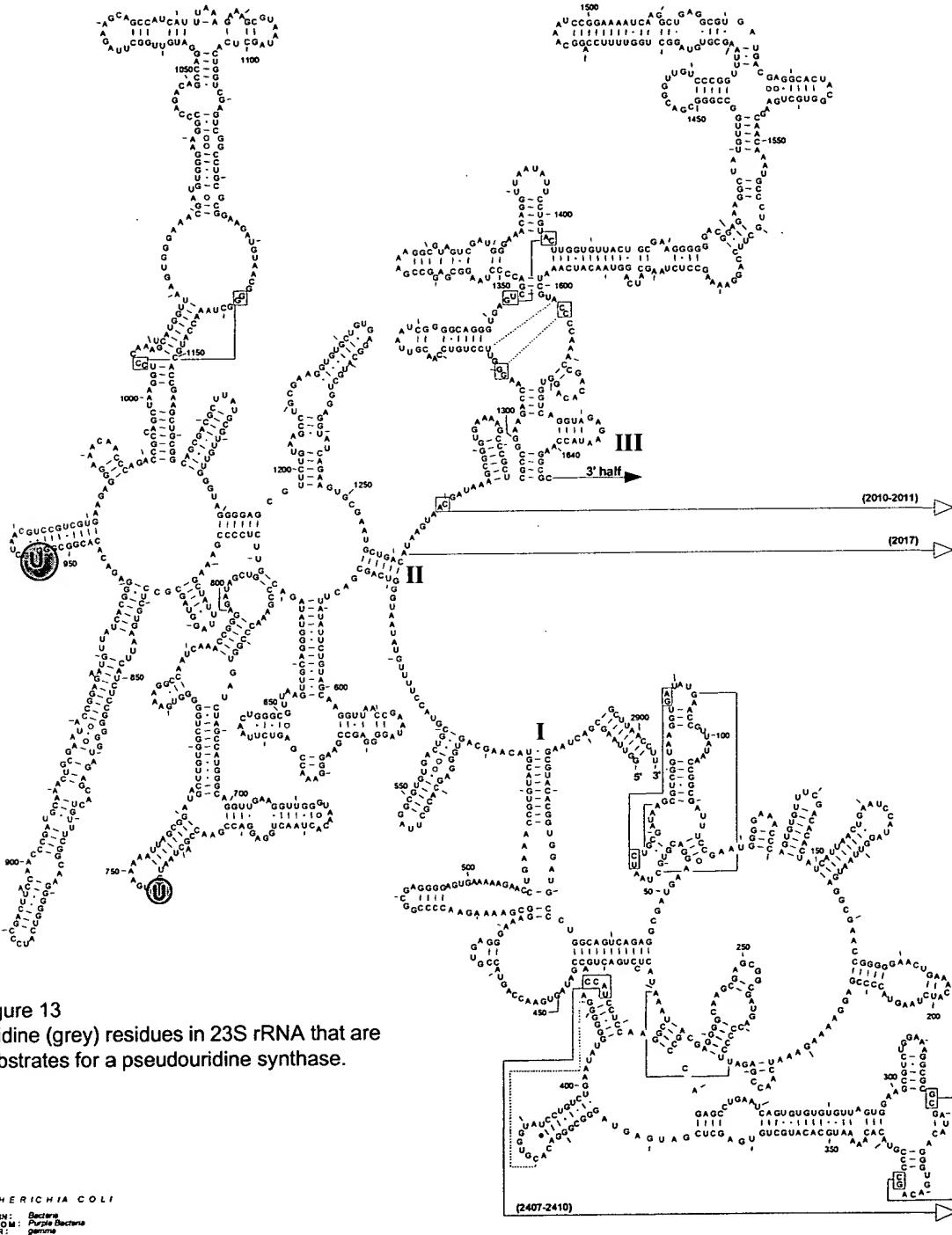


FIGURE 14

Secondary Structure: large subunit ribosomal RNA - 3' half

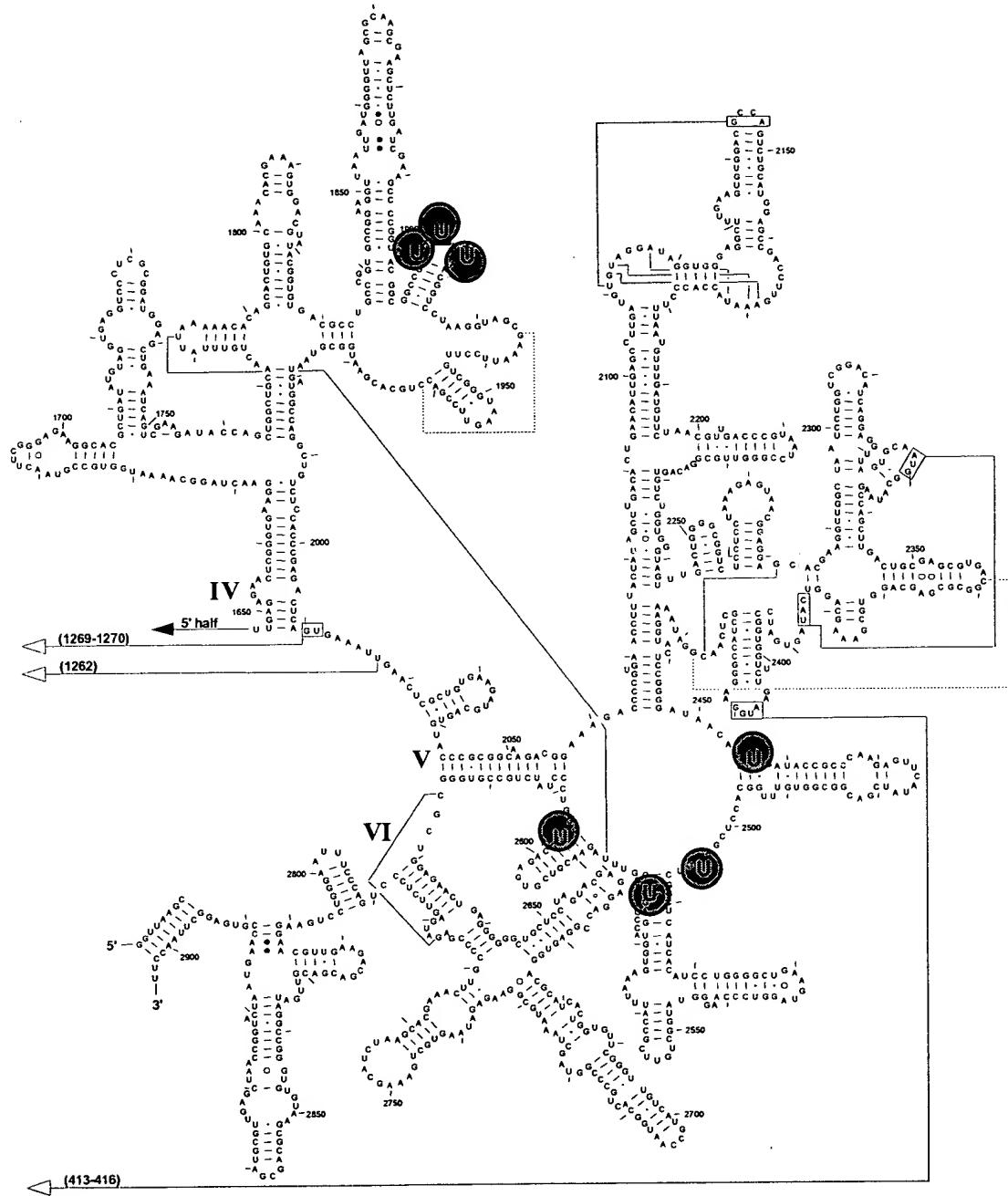


Figure 14

Uridine (grey) residues in 23S rRNA that are substrates for a pseudouridine synthase.

Escherichia coli

DOMAIN: Bacteria

KINGDOM: Prokaryota

ORDER: gamma

RELEASE: 23(December 1994)

(20129)

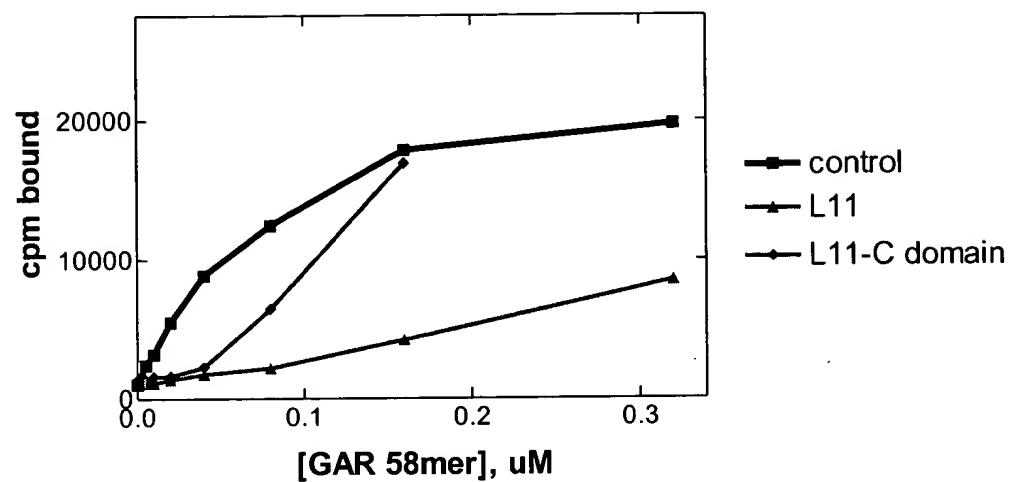
FIGURE 15

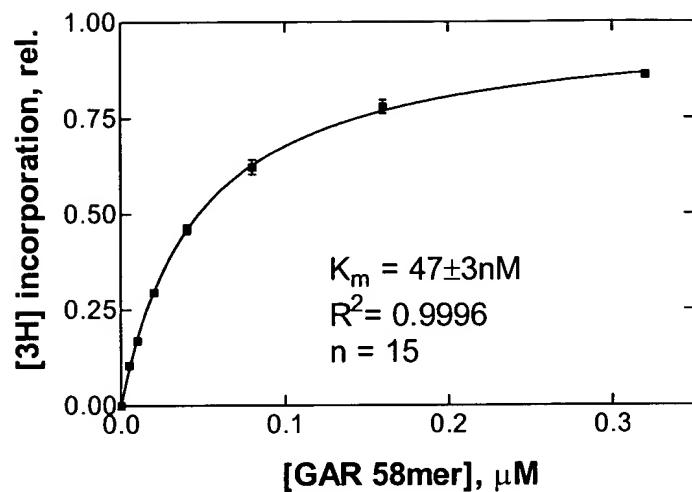
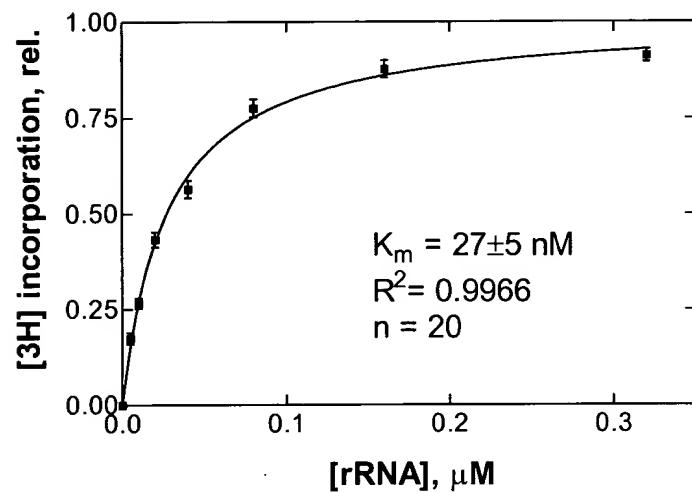
FIGURE 16**A****B**

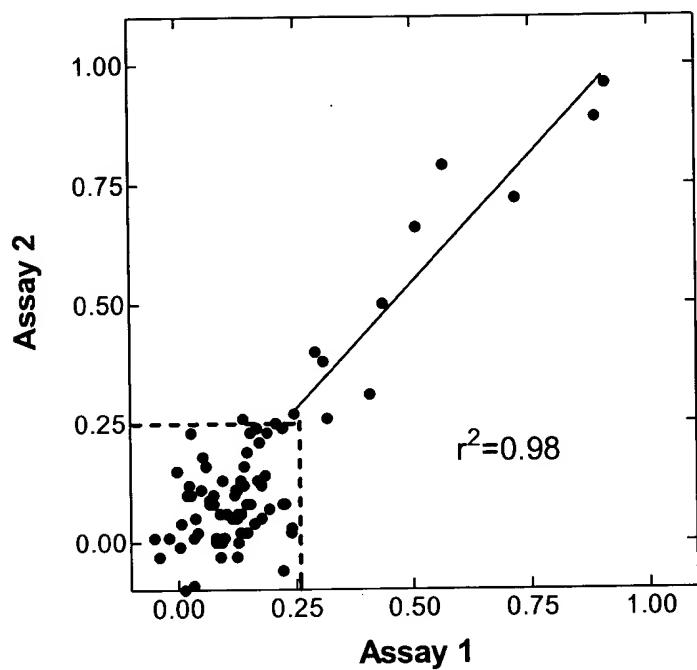
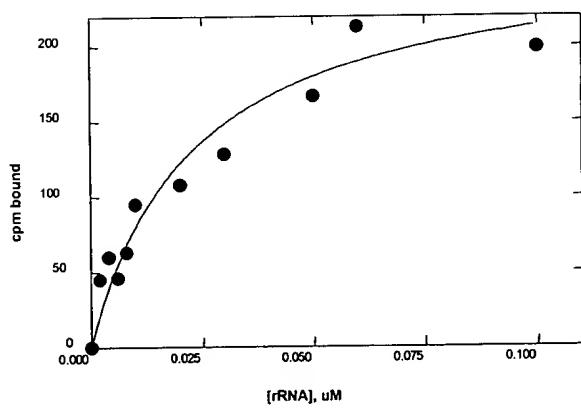
FIGURE 17**FIGURE 18**

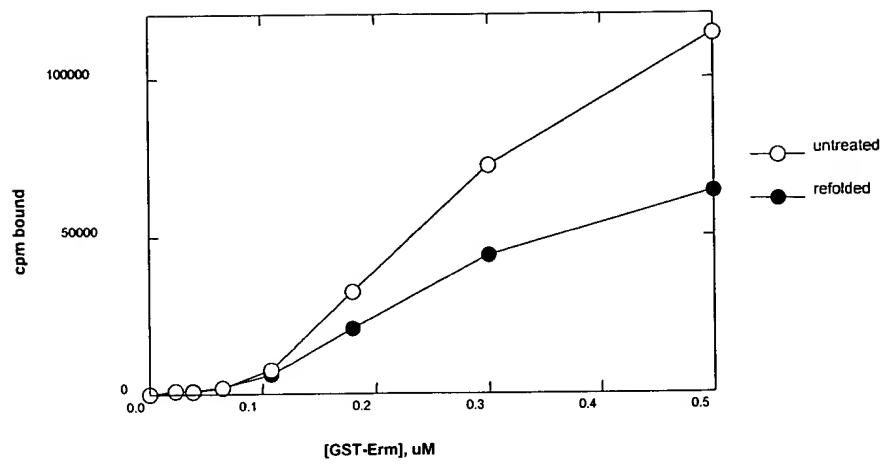
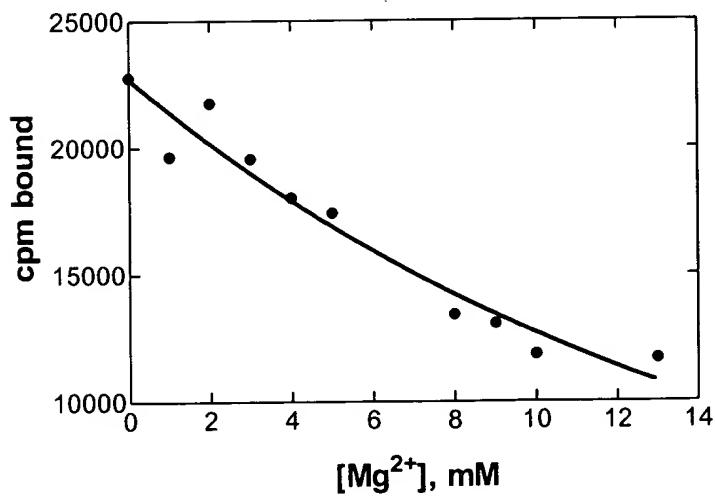
FIGURE 19**FIGURE 20**

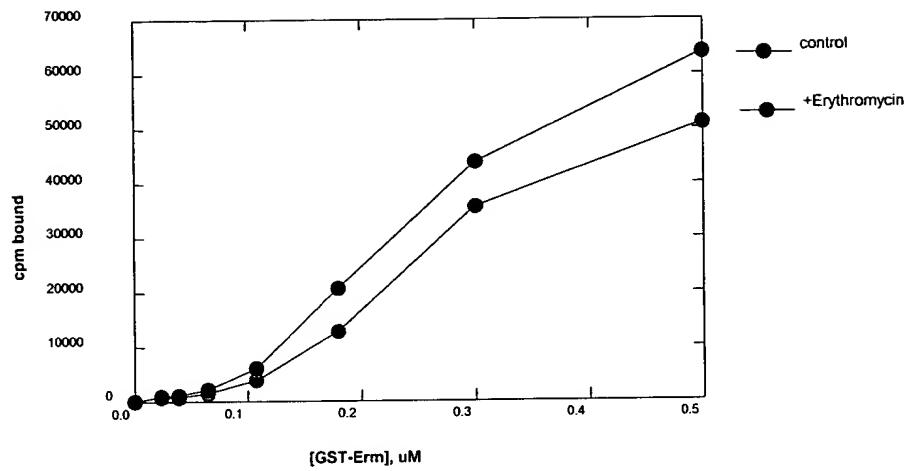
FIGURE 21

FIGURE 22